

Abstract

5 A method and system for curing reactive material. The system includes an inlet port adapted to receive radiation from a source, a plurality of emitter ports and transmission means operatively coupling the inlet port to each emitter port. The transmission means is adapted to conduct radiation from the inlet port to the emitter ports and preferably includes a plurality of optical fibre strands. Additionally, the system also preferably includes a housing defining a substantially tubular irradiation chamber. In one
10 embodiment, a method is disclosed for joining the ends of a first optical cable and a second optical cable together. The method includes the steps of abutting the end of the first optical cable to the end of the second optical cable, applying reactive adhesive to the abutted ends, and directing radiation within the absorption spectrum of the reactive adhesive onto the adhesive
15 until the adhesive is sufficiently cured. Preferably, the curing step involves positioning the abutted ends within the irradiation chamber of the curing system of the present invention. In another embodiment, a method is disclosed for coating fibre optic cabling. The method includes the steps of applying reactive coating material to the outside of the fibre optic cabling, and
20 directing radiation within the absorption spectrum of the reactive adhesive onto the coating material until the coating material is sufficiently cured.

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